AMENDMENTS TO THE CLAIMS

1. (Original) A compound of formula I

$$R^4$$
 R^5
 R^6
 R^1
 R^2
 Q
 Y^1
 Y^2
 Y^2
 Y^2
 Y^3
 Y^2

wherein

 R^1 is selected from hydrogen, C_1 - C_4 alkyl, C_3 - C_6 cycloalkyl, aryl and heteroaryl, wherein the aryl or heteroaryl may be substituted by C_1 - C_4 alkyl;

R² is selected from hydrogen and C₁-C₄ alkyl;

R³ is selected from hydrogen, C₁-C₄ alkyl, F, CF₃, CHF₂ and CH₂F;

R⁴ is selected from hydrogen, F, CF₃, CHF₂, CH₂F and CH₃;

R⁵ is selected from hydrogen and F;

R⁶ is selected from hydrogen and F;

Q is selected from C₁-C₄ alkyl, optionally substituted by C₁-C₄ alkyl or C₁-C₄ alkoxy;

 Y^1 is selected from hydrogen; halogen; nitrile; C_1 - C_4 alkoxy; C_1 - C_4 alkyl wherein one or more of the hydrogen atoms of the alkyl group may be substituted for a fluorine atom; benzyloxy; nitro in the meta or para position; and C_1 - C_4 alkyl ester;

 Y^2 is selected from hydrogen; halogen; nitrile; C_1 - C_4 alkoxy; C_1 - C_4 alkyl wherein one or more of the hydrogen atoms of the alkyl group may be substituted for a fluorine atom; and C_1 - C_4 alkyl ester;

 Y^3 is selected from hydrogen; halogen; nitrile; C_1 - C_4 alkoxy; C_1 - C_4 alkyl wherein one or more of the hydrogen atoms of the alkyl group may be substituted for a fluorine atom; and C_1 - C_4 alkyl ester; or

 Y^1 and Y^2 may form an aromatic or non-aromatic ring, optionally substituted by halogen, nitrile, C_1 - C_4 alkoxy, C_1 - C_4 alkyl wherein one or more of the hydrogen atoms of the alkyl group may be substituted for a fluorine atom, benzyloxy or C_1 - C_4 alkyl ester; as well as pharmaceutically acceptable salts, hydrates, isoforms and/or optical isomers thereof, with the exception of 4-(4-pyridin-2-yl-but-3-ynyl)-benzonitrile.

2. (Original) A compound of formula I

$$R^4$$
 R^5
 R^6
 R^1
 R^2
 Q
 Y^1
 Y^2
 Y^2
 Y^3
 Y^2

wherein

 R^1 is selected from hydrogen, C_1 - C_4 alkyl, C_3 - C_6 cycloalkyl, aryl and heteroaryl, wherein the aryl or heteroaryl may be substituted by C_1 - C_4 alkyl;

R² is selected from hydrogen and C₁-C₄ alkyl;

R³ is selected from hydrogen, C₁-C₄ alkyl, F, CF₃, CHF₂ and CH₂F;

R⁴ is selected from hydrogen, F, CF₃, CHF₂, CH₂F and CH₃;

R⁵ is selected from hydrogen and F;

R⁶ is selected from hydrogen and F;

Q is selected from C_1 - C_4 alkyl, optionally substituted by C_1 - C_4 alkyl or C_1 - C_4 alkoxy;

Y¹ is selected from hydrogen, halogen, nitrile, C₁-C₄ alkoxy, and C₁-C₄ alkyl;

Y² is selected from hydrogen, halogen, nitrile, C₁-C₄ alkoxy, and C₁-C₄ alkyl;

 Y^3 is selected from hydrogen, halogen, nitrile, C_1 - C_4 alkoxy, and C_1 - C_4 alkyl;

as well as pharmaceutically acceptable salts, hydrates, isoforms and/or optical isomers

thereof, with the exception of 4-(4-pyridin-2-yl-but-3-ynyl)-benzonitrile.

3. (Original) A compound according to formula I of claim 1 or 2, wherein

R¹ is hydrogen or C₁-C₃ alkyl;

R² is hydrogen;

R³ is selected from hydrogen and methyl;

R⁴ is hydrogen;

R⁵ is hydrogen;

R⁶ is hydrogen;

Q is C₁-C₂ alkyl, optionally substituted by C₁-C₂ alkyl;

 Y^1 is selected from hydrogen, chloro, C_1 - C_2 alkoxy, and C_1 - C_2 alkyl; and Y^2 is selected from hydrogen, chloro, C_1 - C_2 alkoxy, and C_1 - C_2 alkyl; and Y^3 is hydrogen.

- 4. (Original) A compound according to claim 1 selected from 2-[4-(3-chlorophenyl)but-1-yn-1-yl]-6-methylpyridine, 2-[4-(3-methoxyphenyl)but-1-yn-1-yl]-6-methylpyridine, 2-methyl-6-[4-(3-methylphenyl)but-1-yn-1-yl]pyridine, 2-methyl-6-(4-phenylbut-1-yn-1-yl)pyridine and 2-methyl-6-(4-phenylpent-1-yn-1-yl)pyridine.
- 5. (Currently Amended) A compound according to any one of claims 1-4 claim 1 for use in therapy.
- 6. (Original) A compound according to claim 5, wherein the therapy is treatment or prevention of gastroesophageal reflux disease.
- 7. (Original) Use of a compound according to formula I of claim 1 or 2, or a pharmaceutically acceptable salt or an optical isomer thereof, for the manufacture of a medicament for the inhibition of transient lower esophageal sphincter relaxations.
- 8. (Original) Use of a compound according to formula I of claim 1 or 2, or a pharmaceutically acceptable salt or an optical isomer thereof, for the manufacture of a medicament for treatment or prevention of gastroesophageal reflux disease.

CLAIMS 9-10 (CANCELED)

11. (Original) A pharmaceutical composition comprising a compound of formula I of claim 1 or 2 as an active ingredient, together with a pharmacologically and pharmaceutically acceptable carrier.

12. (Original) A process for the preparation of a compound of formula I, whereby a coupling reaction of an aryl bromide A

$$R^4$$
 R^3
 R^5
 R^6
 R^6
 R^6

and an alkyne B

$$= R^{1} \qquad Y^{1} \qquad Y^{2}$$

$$= R^{2} \qquad Q \qquad Y^{3}$$

$$= R^{2} \qquad Q \qquad Y^{3}$$

is performed in the presence of a base such as triethyl amine at room temperature to 60 °C, and wherein

 R^1 is selected from hydrogen, C_1 - C_4 alkyl, C_3 - C_6 cycloalkyl, aryl and heteroaryl, wherein the aryl or heteroaryl may be substituted by C_1 - C_4 alkyl;

R² is selected from hydrogen and C₁-C₄ alkyl;

R³ is selected from hydrogen, C₁-C₄ alkyl, F, CF₃, CHF₂ and CH₂F;

R⁴ is selected from hydrogen, F, CF₃, CHF₂, CH₂F and CH₃;

R⁵ is selected from hydrogen and F;

R⁶ is selected from hydrogen and F;

Q is selected from C_1 - C_4 alkyl, optionally substituted by C_1 - C_4 alkyl or C_1 - C_4 alkoxy;

 Y^1 is selected from hydrogen; halogen; nitrile; C_1 - C_4 alkoxy; C_1 - C_4 alkyl wherein one or more of the hydrogen atoms of the alkyl group may be substituted for a fluorine atom; benzyloxy; nitro in the meta or para position; and C_1 - C_4 alkyl ester;

 Y^2 is selected from hydrogen; halogen; nitrile; C_1 - C_4 alkoxy; C_1 - C_4 alkyl wherein one or more of the hydrogen atoms of the alkyl group may be substituted for a fluorine atom; and C_1 - C_4 alkyl ester;

 Y^3 is selected from hydrogen; halogen; nitrile; C_1 - C_4 alkoxy; C_1 - C_4 alkyl wherein one or more of the hydrogen atoms of the alkyl group may be substituted for a fluorine atom; and C_1 - C_4 alkyl ester; or

 Y^1 and Y^2 may form an aromatic or non-aromatic ring, optionally substituted by halogen, nitrile, C_1 - C_4 alkoxy, C_1 - C_4 alkyl wherein one or more of the hydrogen atoms of the alkyl group may be substituted for a fluorine atom, benzyloxy or C_1 - C_4 alkyl ester.

13. (Original) A compound of formula B

wherein

 R^1 is selected from hydrogen, C_1 - C_4 alkyl, C_3 - C_6 cycloalkyl, aryl and heteroaryl, wherein the aryl or heteroaryl may be substituted by C_1 - C_4 alkyl;

 R^2 is selected from hydrogen and C_1 - C_4 alkyl;

R³ is selected from hydrogen, C₁-C₄ alkyl, F, CF₃, CHF₂ and CH₂F;

R⁴ is selected from hydrogen, F, CF₃, CHF₂, CH₂F and CH₃;

Q is selected from C_1 - C_4 alkyl, optionally substituted by C_1 - C_4 alkyl or C_1 - C_4 alkoxy;

 Y^1 is selected from hydrogen; halogen; nitrile; C_1 - C_4 alkoxy; C_1 - C_4 alkyl wherein one or more of the hydrogen atoms of the alkyl group may be substituted for a fluorine atom; benzyloxy; nitro in the meta or para position; and C_1 - C_4 alkyl ester;

 Y^2 is selected from hydrogen; halogen; nitrile; C_1 - C_4 alkoxy; C_1 - C_4 alkyl wherein one or more of the hydrogen atoms of the alkyl group may be substituted for a fluorine atom; and C_1 - C_4 alkyl ester;

 Y^3 is selected from hydrogen; halogen; nitrile; C_1 - C_4 alkoxy; C_1 - C_4 alkyl wherein one or more of the hydrogen atoms of the alkyl group may be substituted for a fluorine atom; and C_1 - C_4 alkyl ester; or

 Y^1 and Y^2 may form an aromatic or non-aromatic ring, optionally substituted by halogen, nitrile, C_1 - C_4 alkoxy, C_1 - C_4 alkyl wherein one or more of the hydrogen atoms of the alkyl group may be substituted for a fluorine atom, benzyloxy or C_1 - C_4 alkyl ester.

- 14. (Original) A compound selected from 1-chloro-3-(4,4-dibromobut-3-en-1-yl)benzene; 1-methoxy-3-(4,4-dibromobut-3-en-1-yl)benzene; 1-methyl-3-(4,4-dibromobut-3-en-1-yl)benzene; 1-but-3-yn-1-yl-3-chlorobenzene; and (4,4-Dibromo-1-methyl-but-3-enyl)-benzene.
- 15. (Original) A method for the inhibition of transient lower esophageal sphincter relaxations whereby an effective amount of a compound of formula I of claim 1 or 2 is administered to a subject in need of such inhibition.
- 16. (Original) A method for the treatment or prevention of gastroesophageal reflux disease, whereby an effective amount of a compound of formula I or claim 1 or 2 is administered to a subject in need of such treatment or prevention.